



System and Method For Detecting Emitter
Signals Having Multi-valued Illumination
Times
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Serial No.: 10/675,541
Docket No.: L0562.70036US00

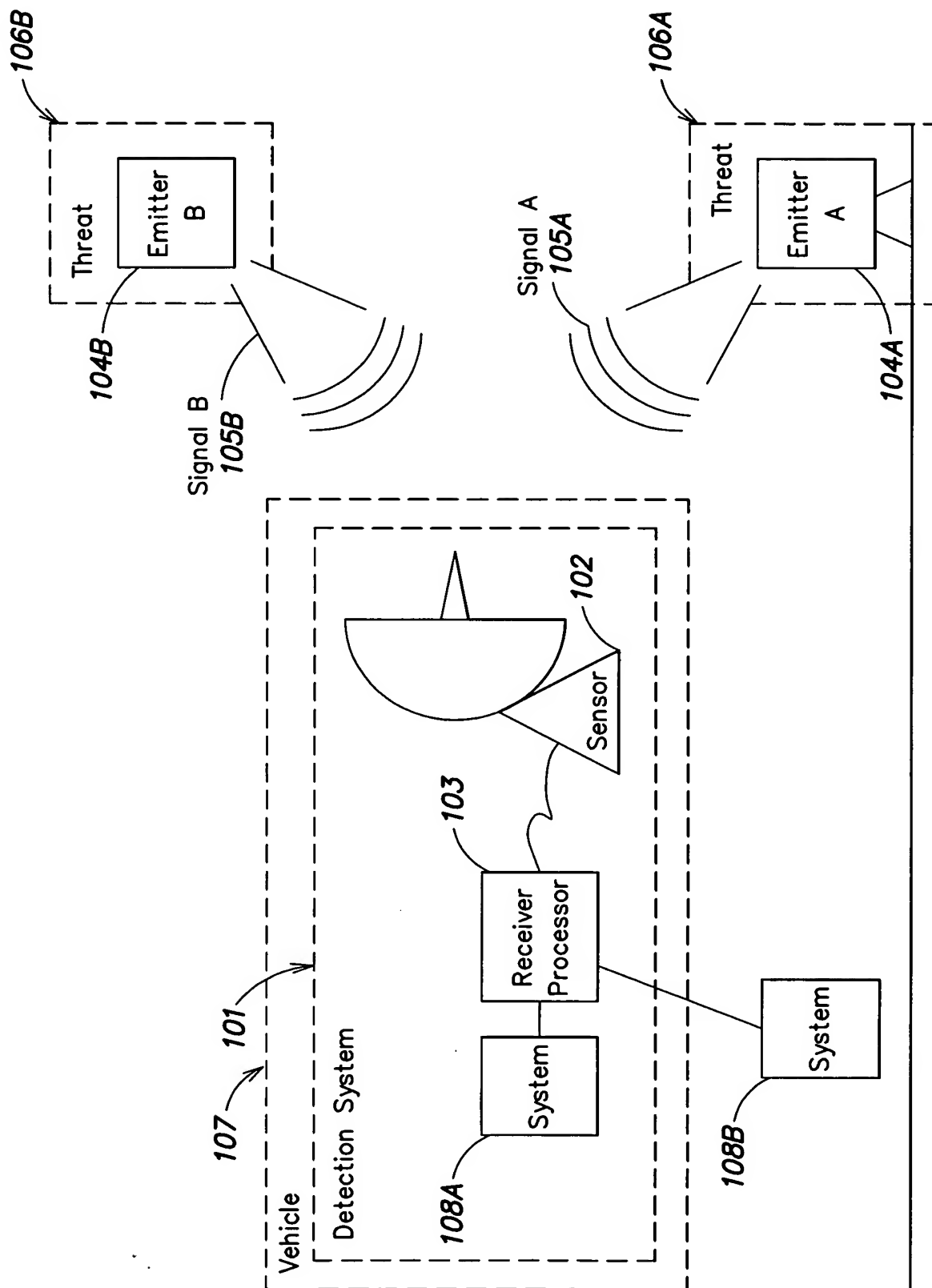


FIG. 1

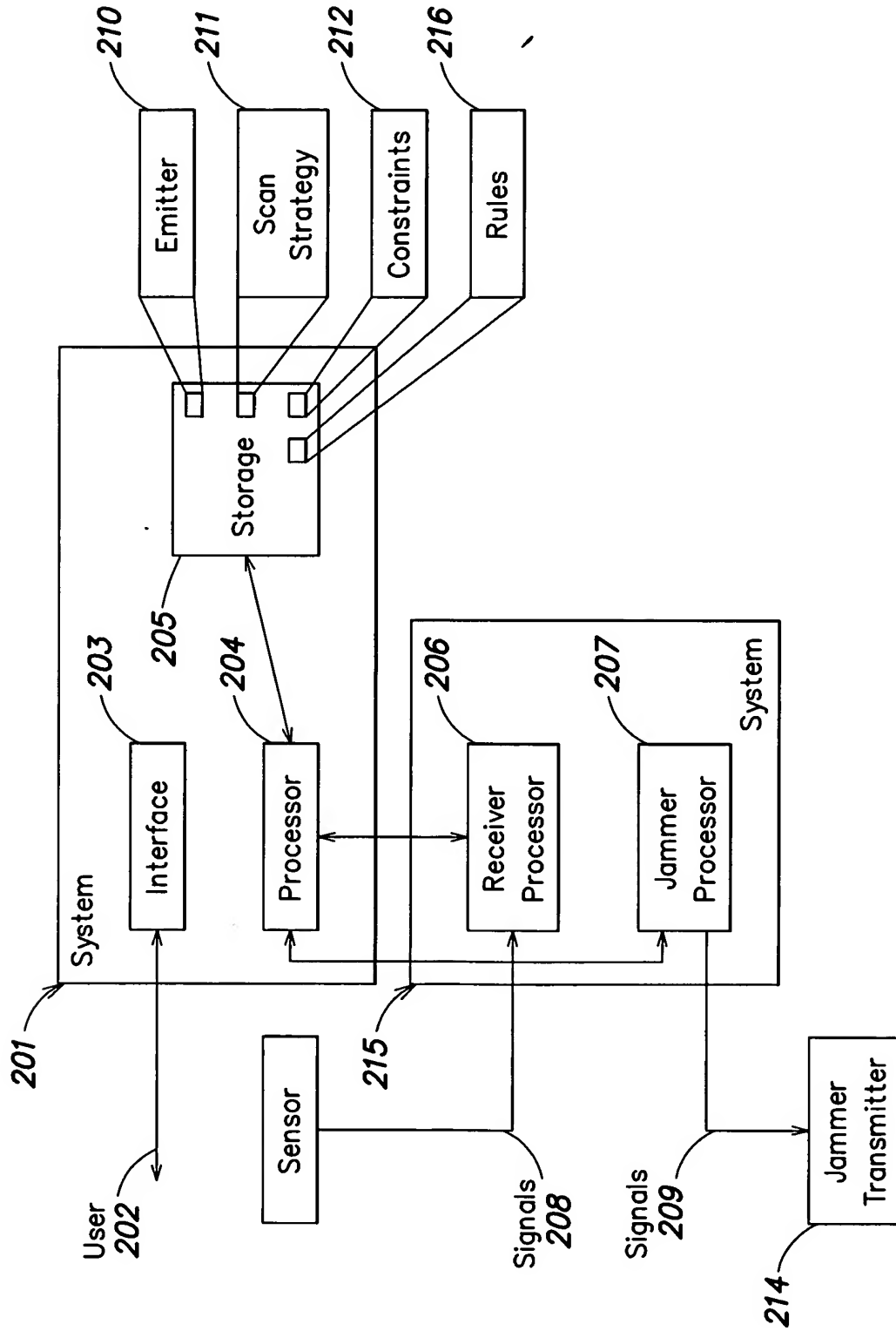


FIG. 2

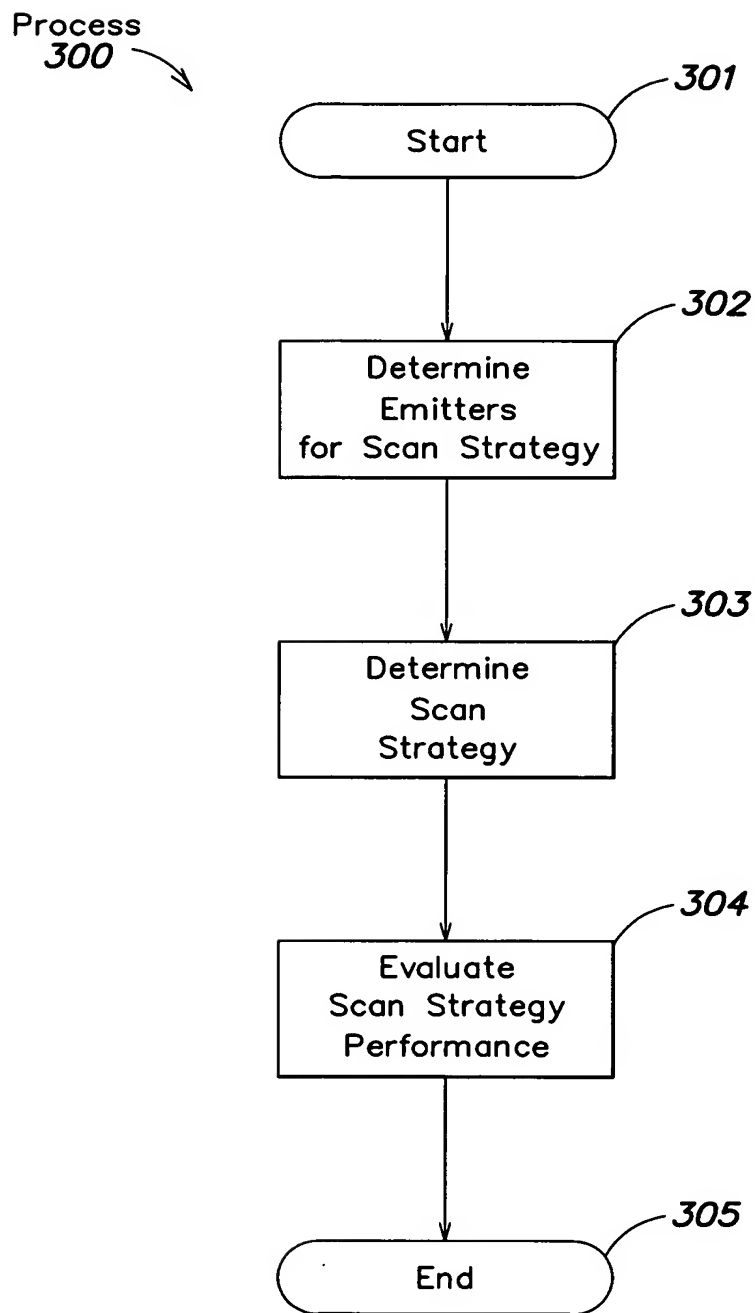


FIG. 3

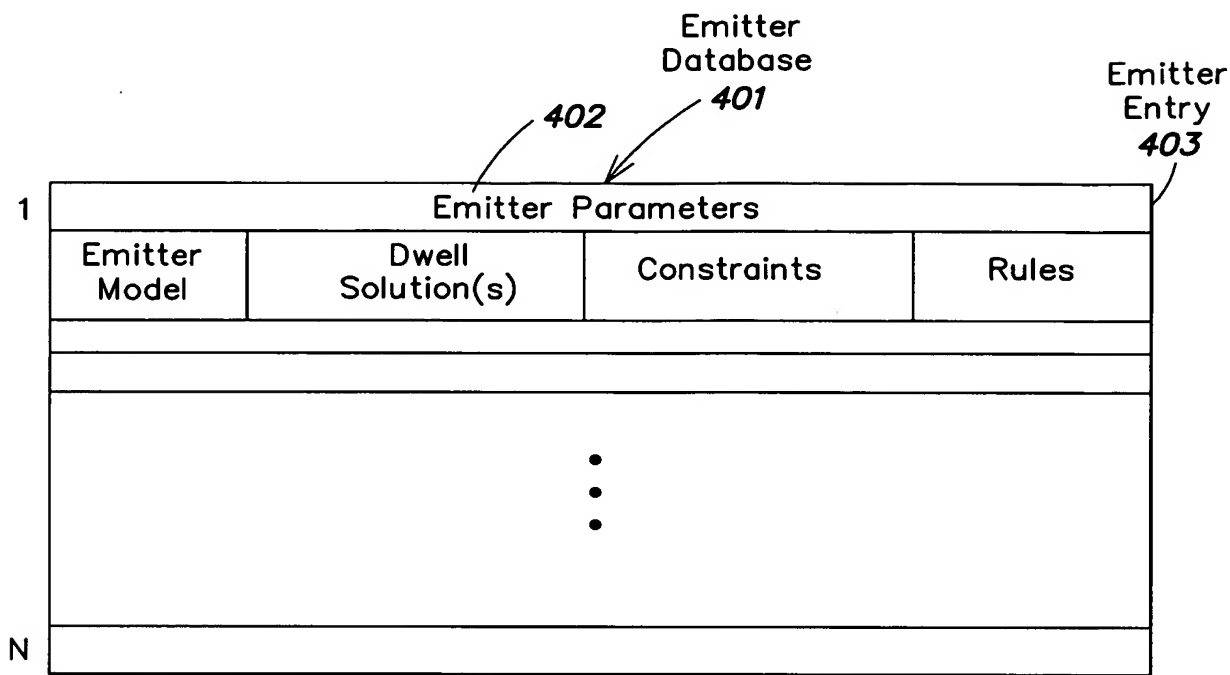


FIG. 4

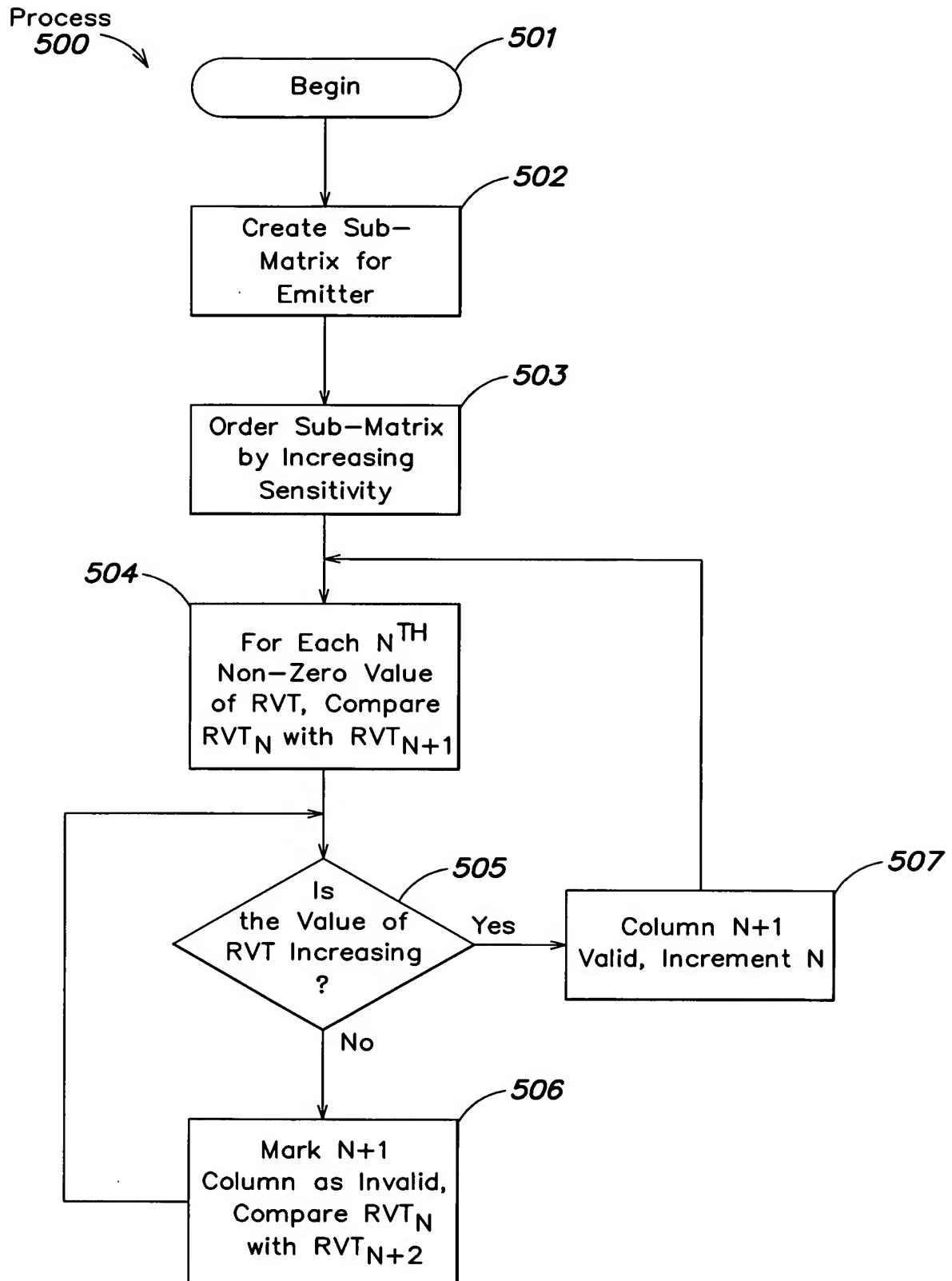


FIG. 5

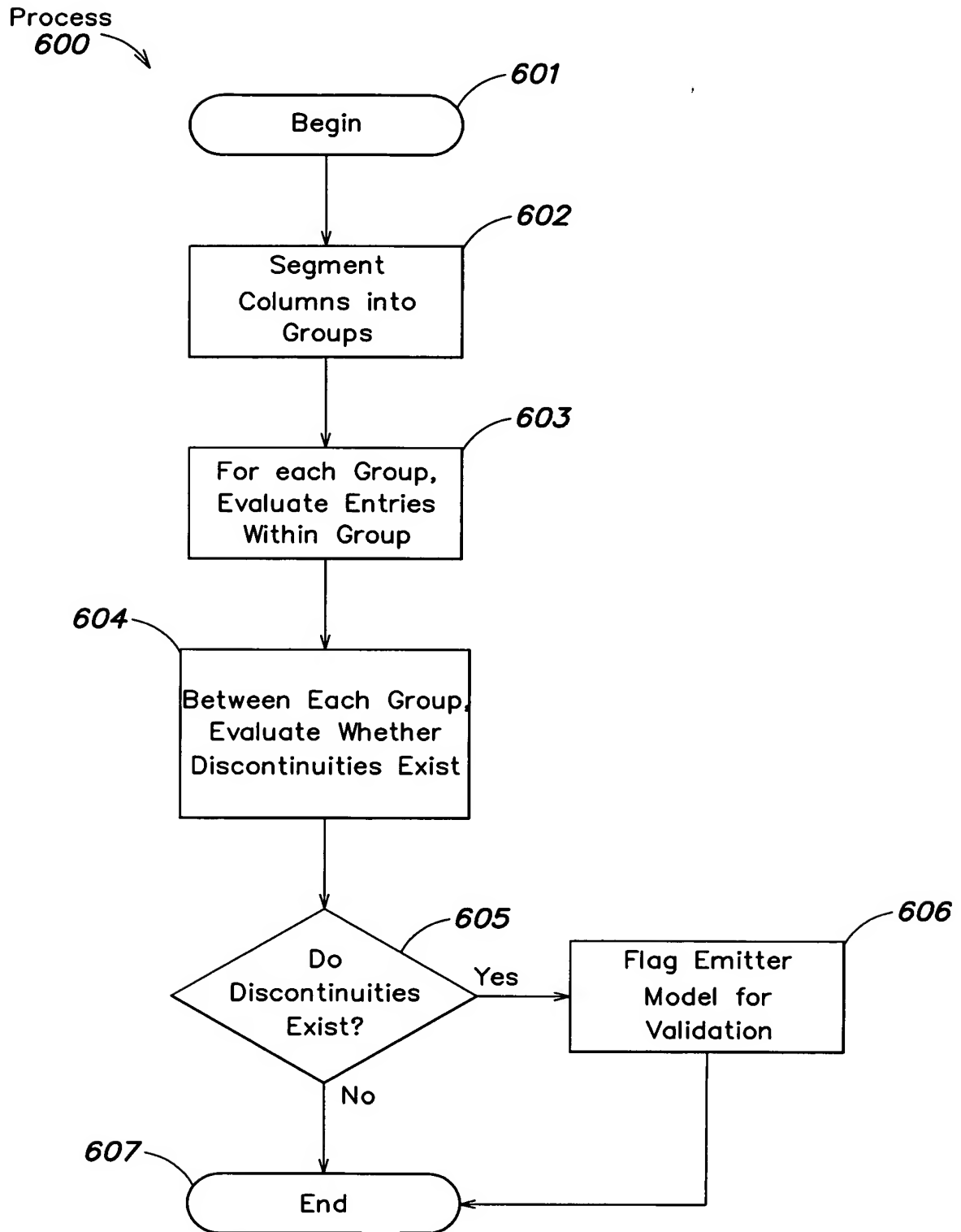


FIG. 6

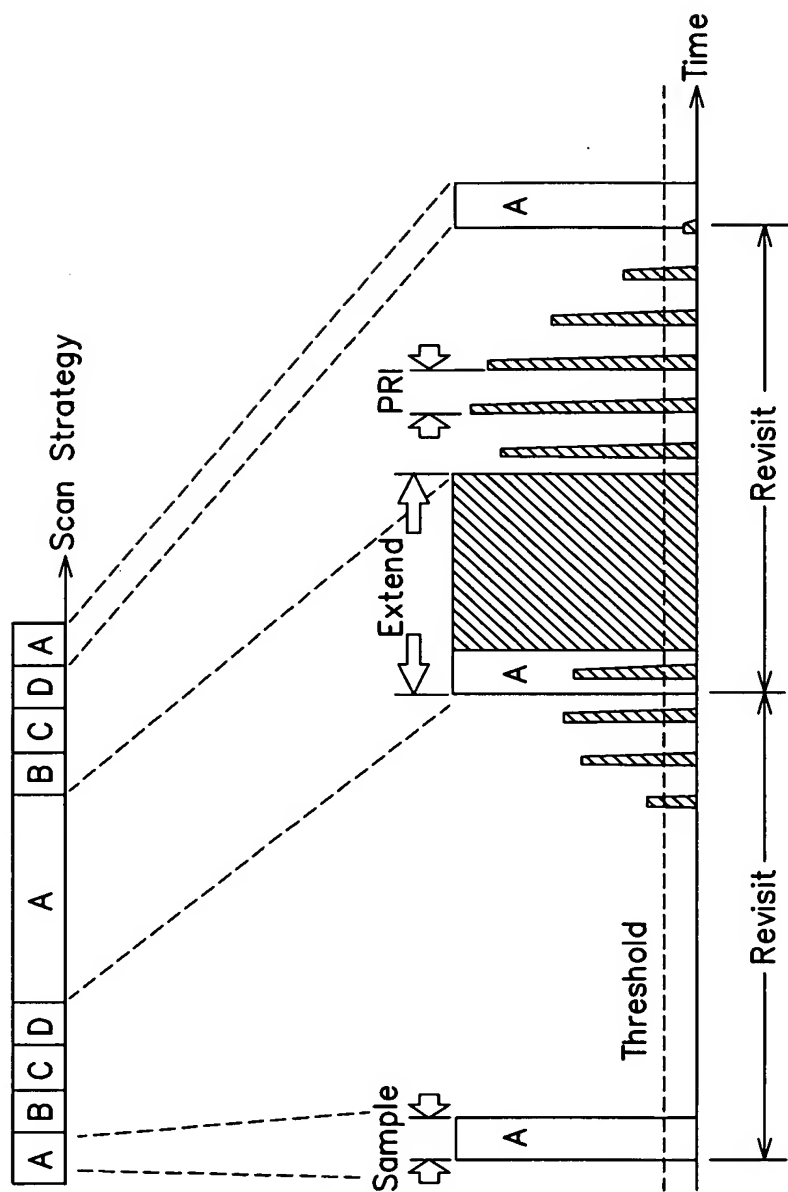


FIG. 7

NO PULSE GROUPING LOGIC:

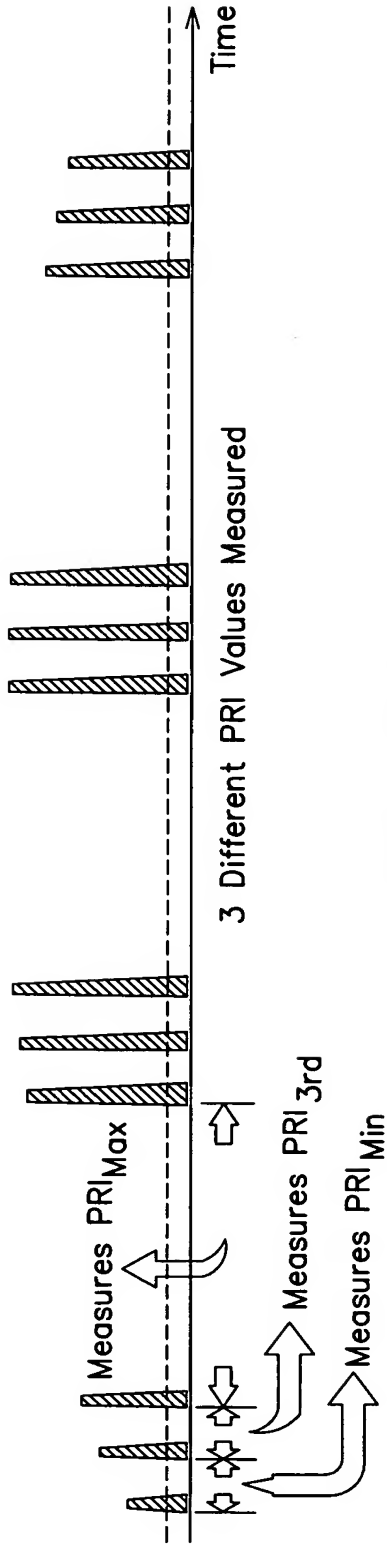


FIG. 8A

WITH PULSE GROUPING LOGIC:

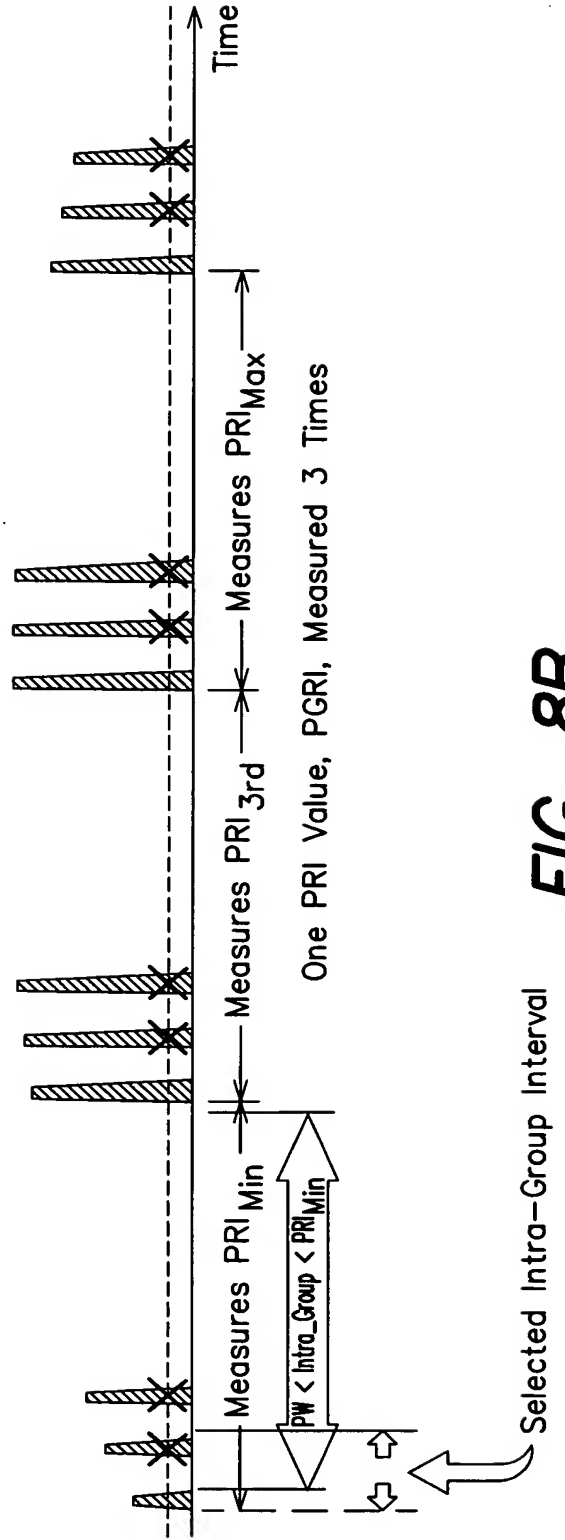


FIG. 8B

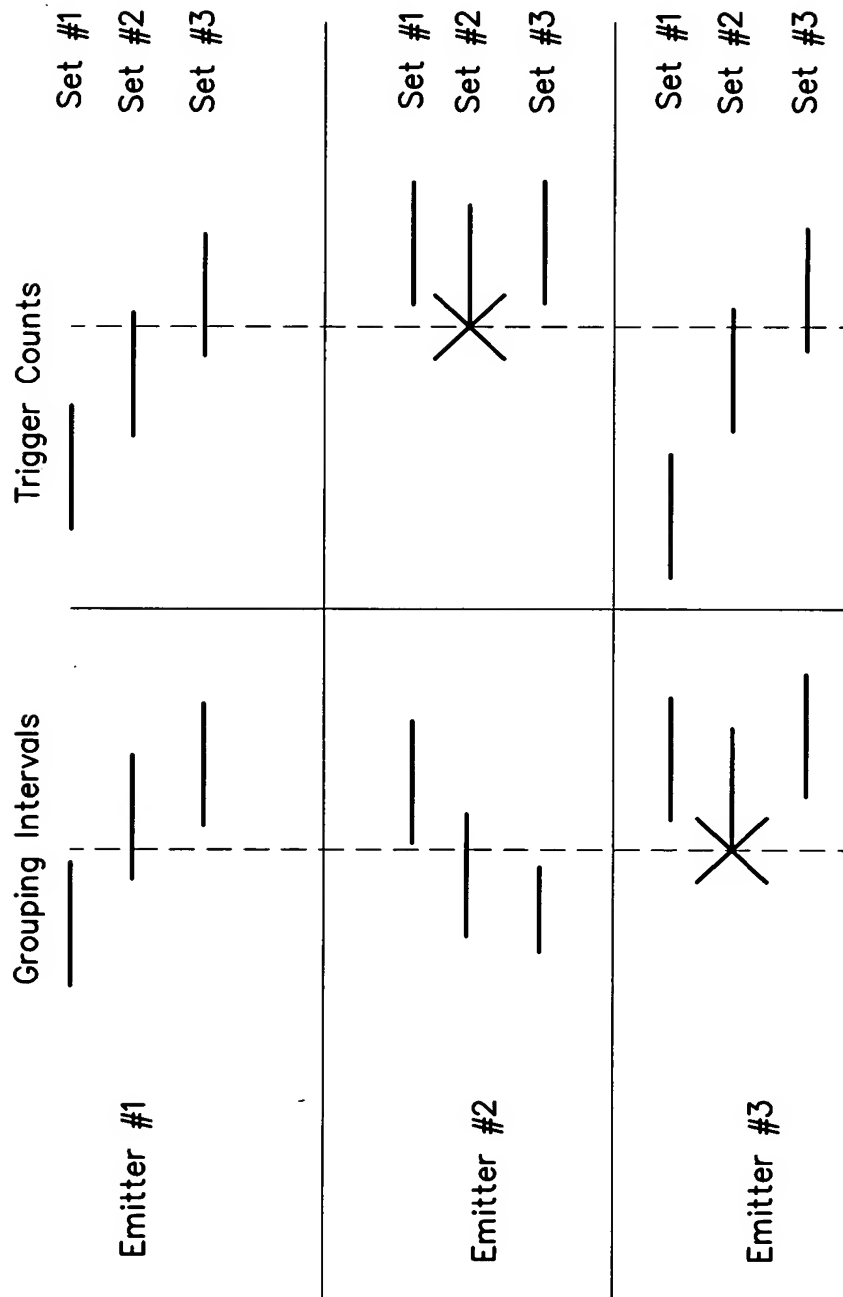


FIG. 9

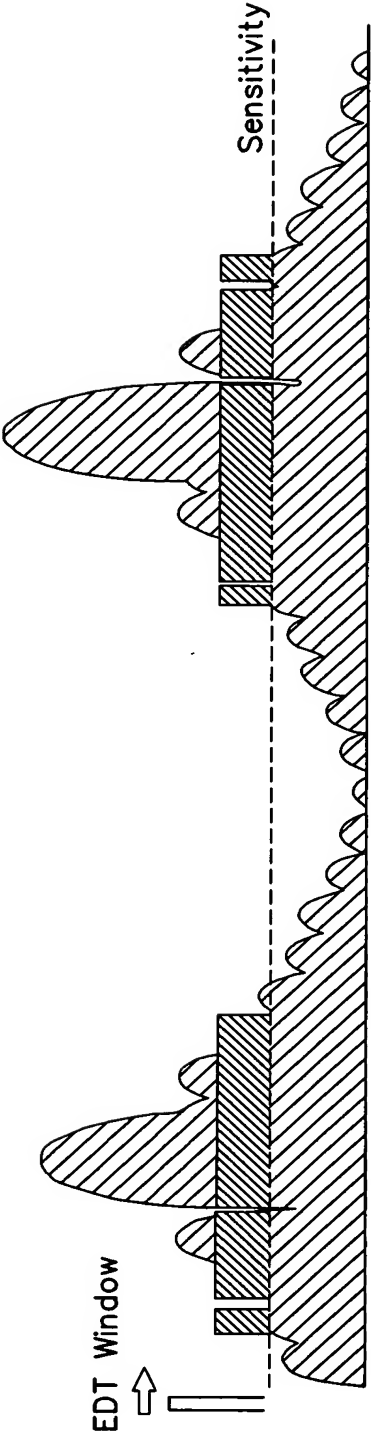


FIG. 10A

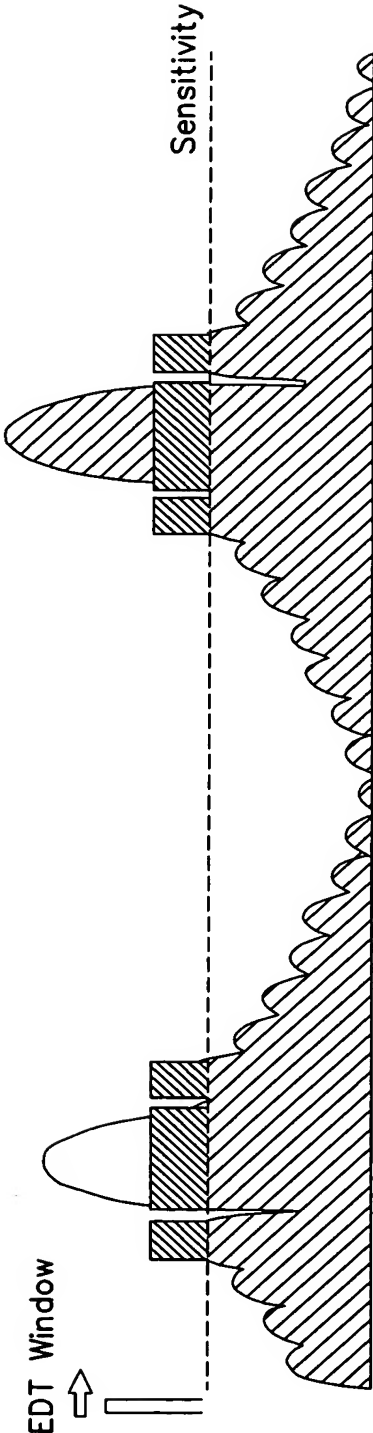


FIG. 10B

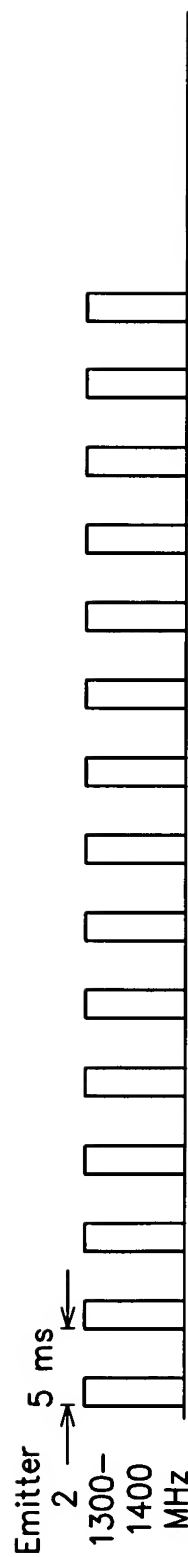
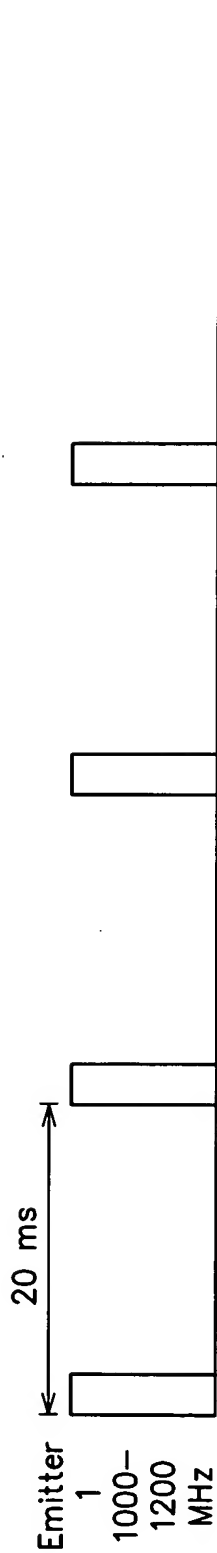
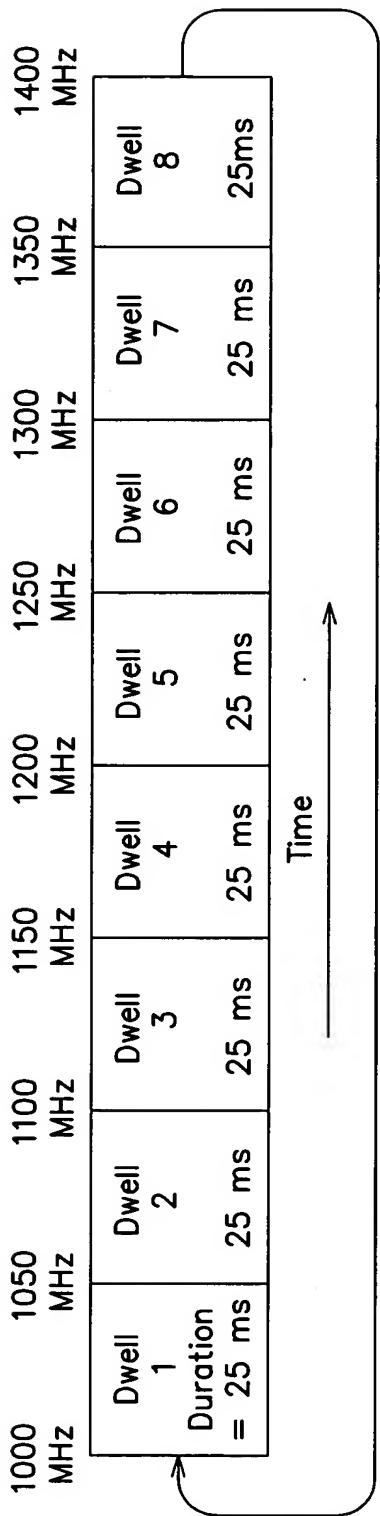


FIG. 11

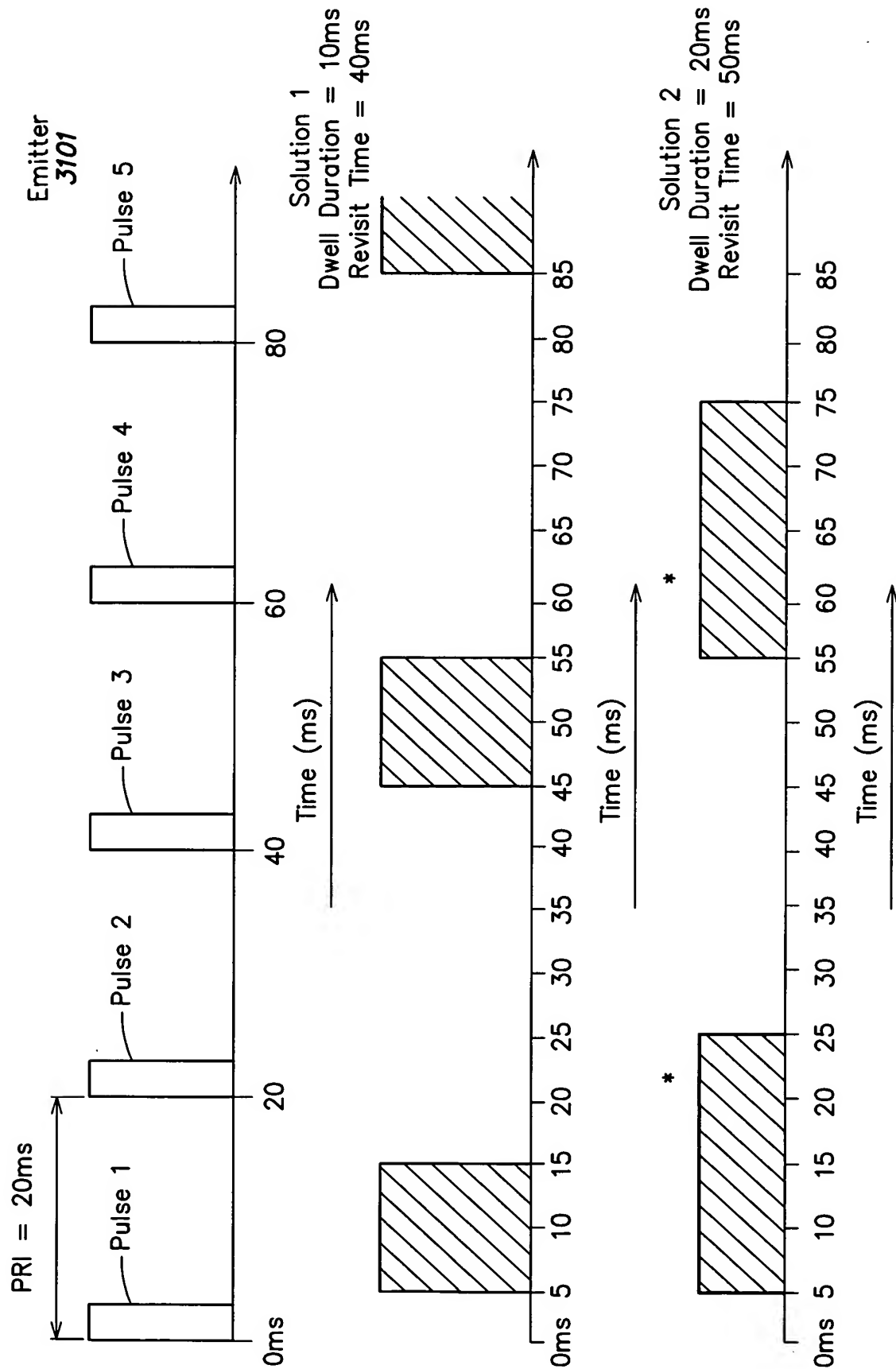


FIG. 12

4000

Emitter Name	Detecting Method 1 250MHz IF/ 15MHz VBW RVT	Detecting Method 2 30MHz IF/ 15MHz VBW RVT	RF Min (MHz)	RF Max (MHz)	Min MDT (ms)
E1	100 ms	650 ms	1000	1300	3
E2	120 ms	780 ms	1220	1350	5
E3	110 ms	330 ms	1510	1810	2
E4	130 ms	390 ms	1730	1860	4

FIG. 13

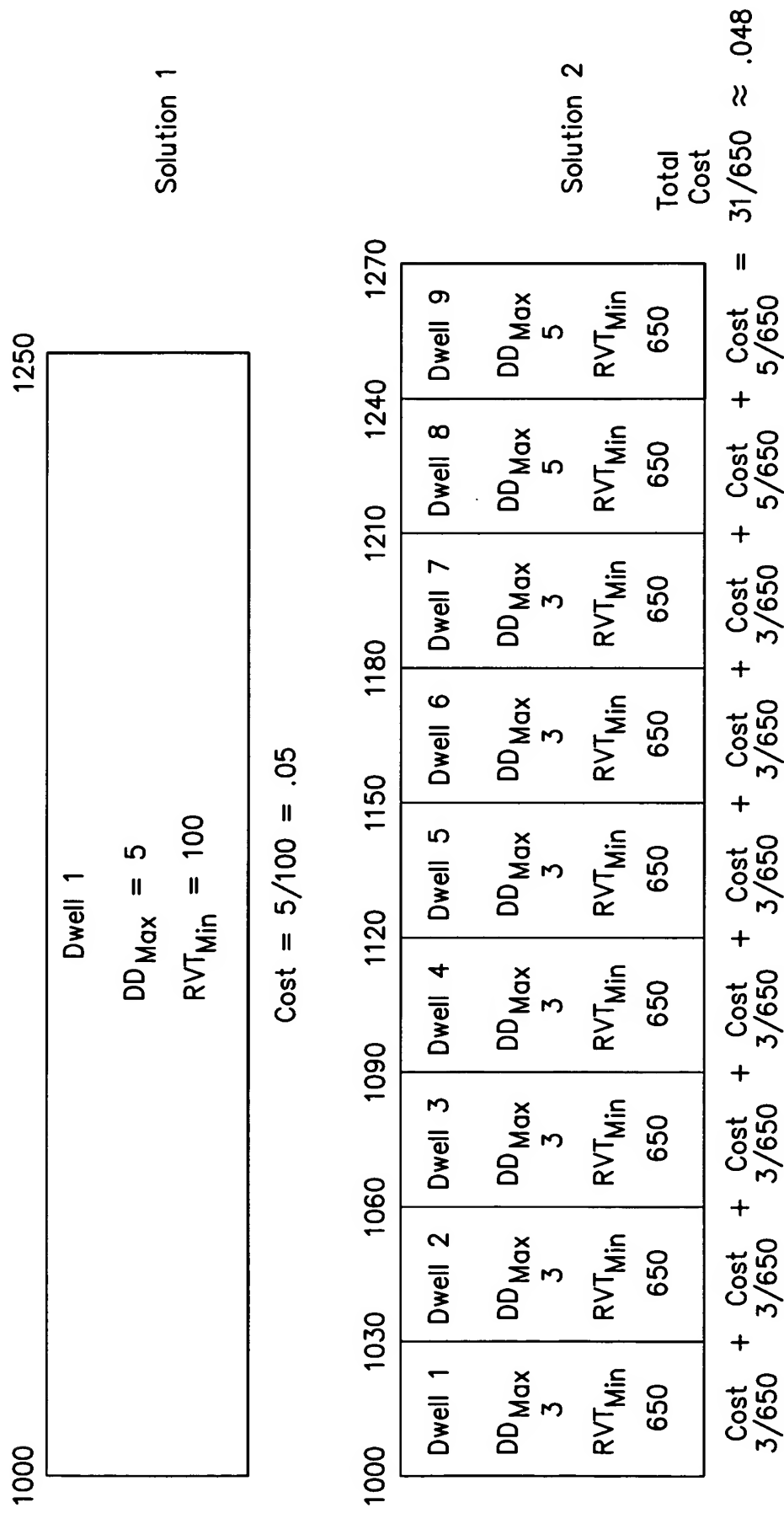


FIG. 14A

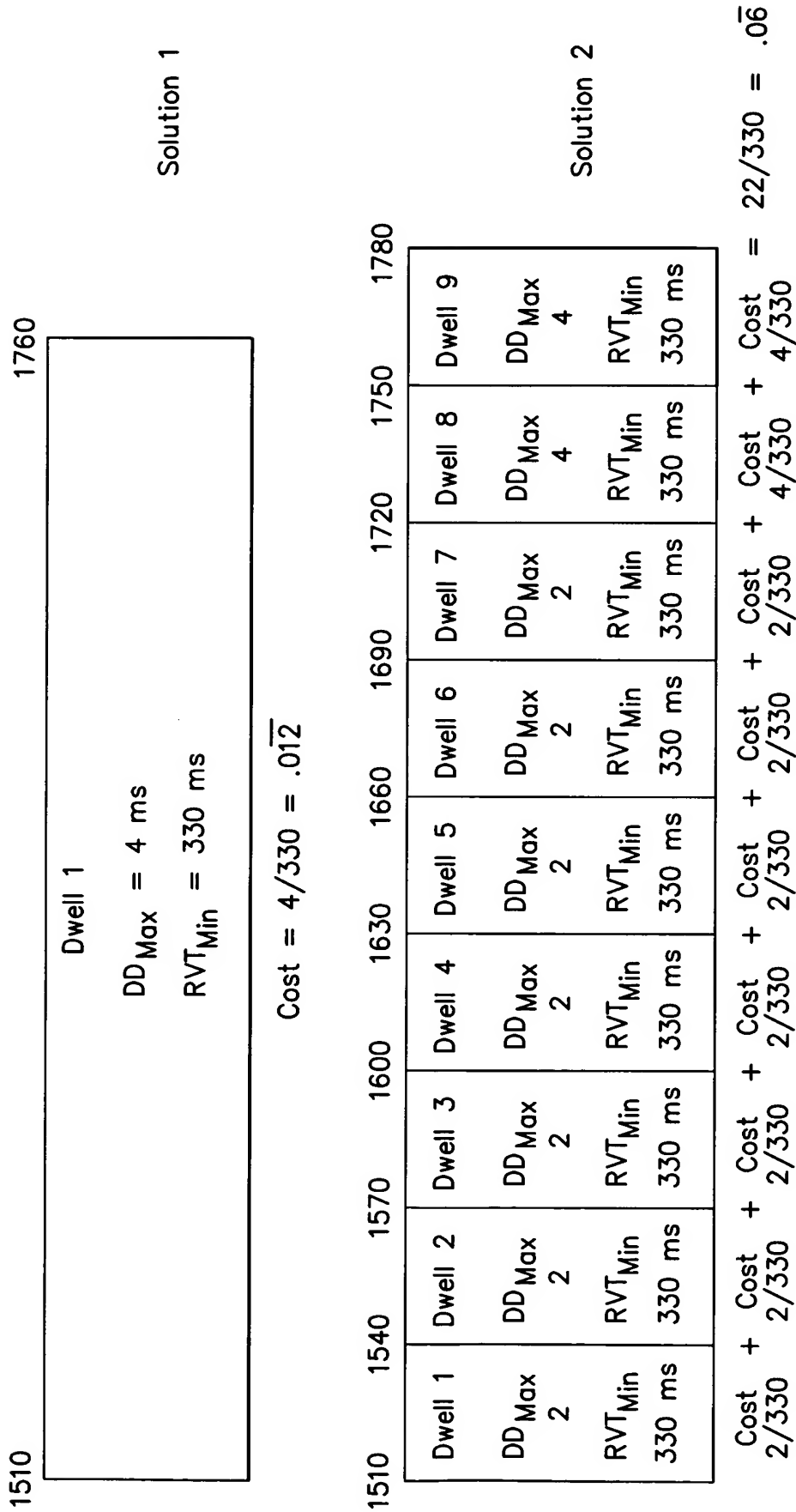


FIG. 14B

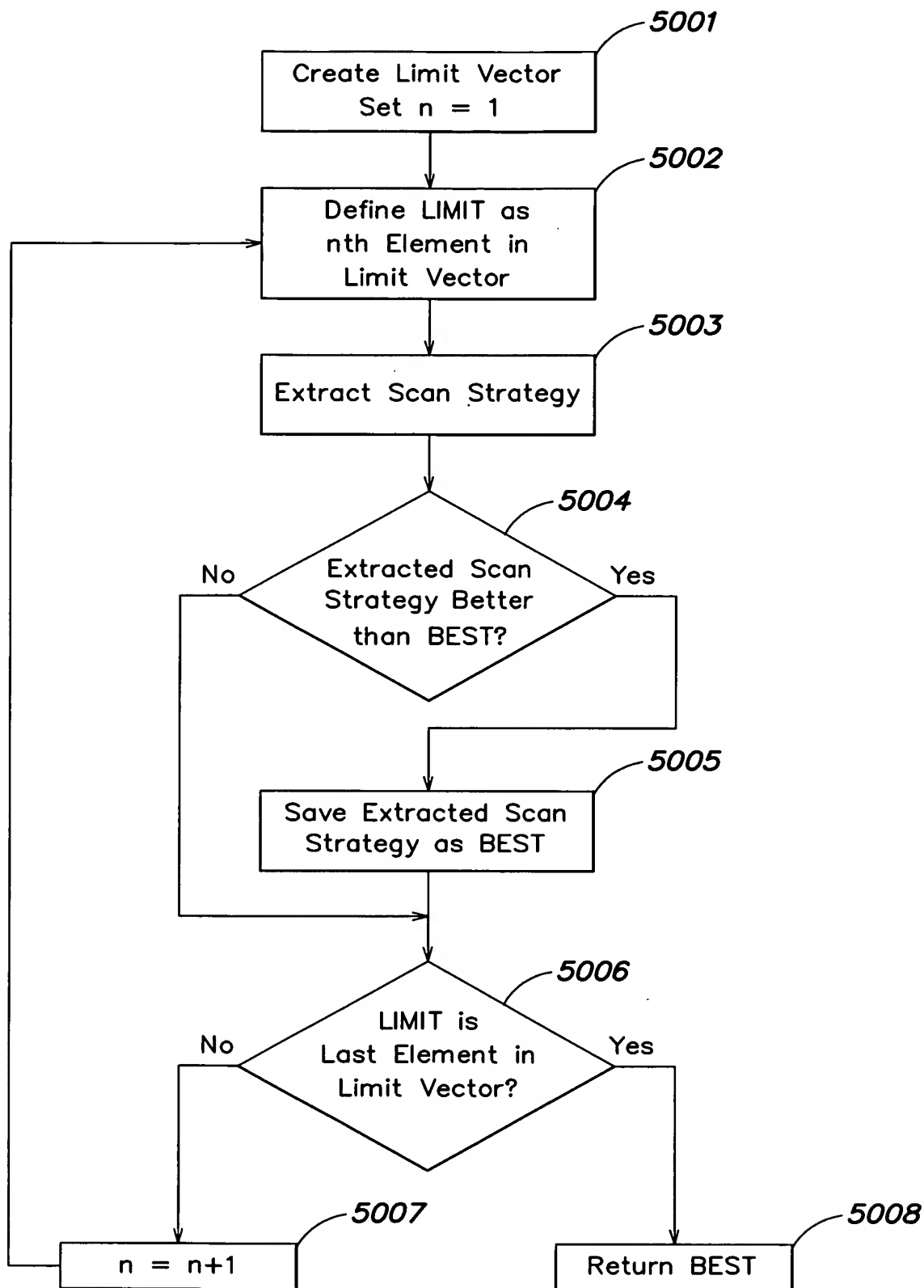


FIG. 15

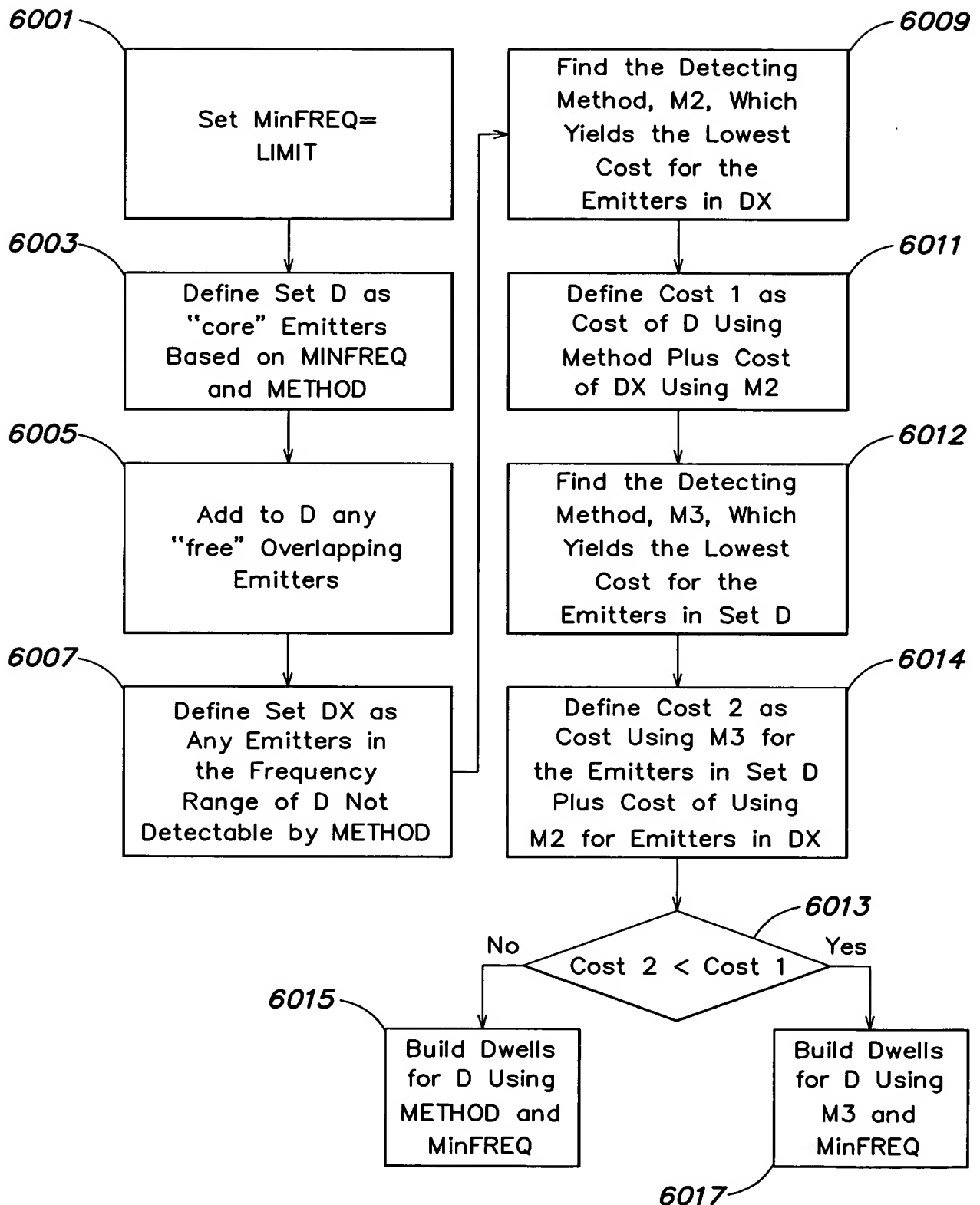


FIG. 16

Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

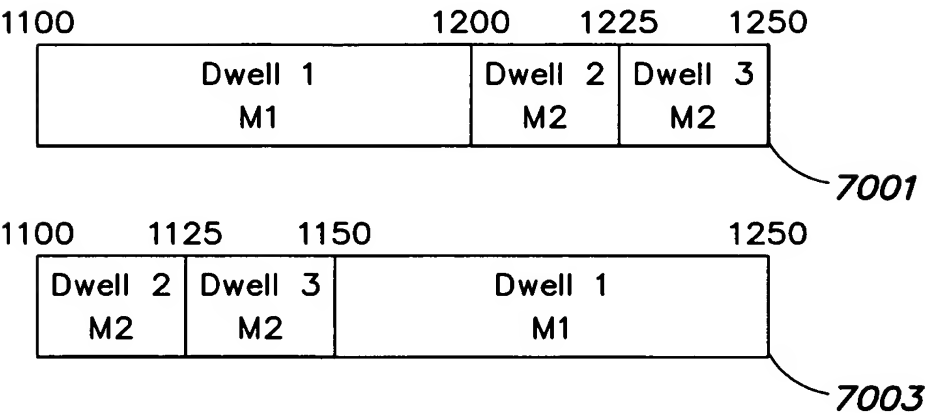


FIG. 17

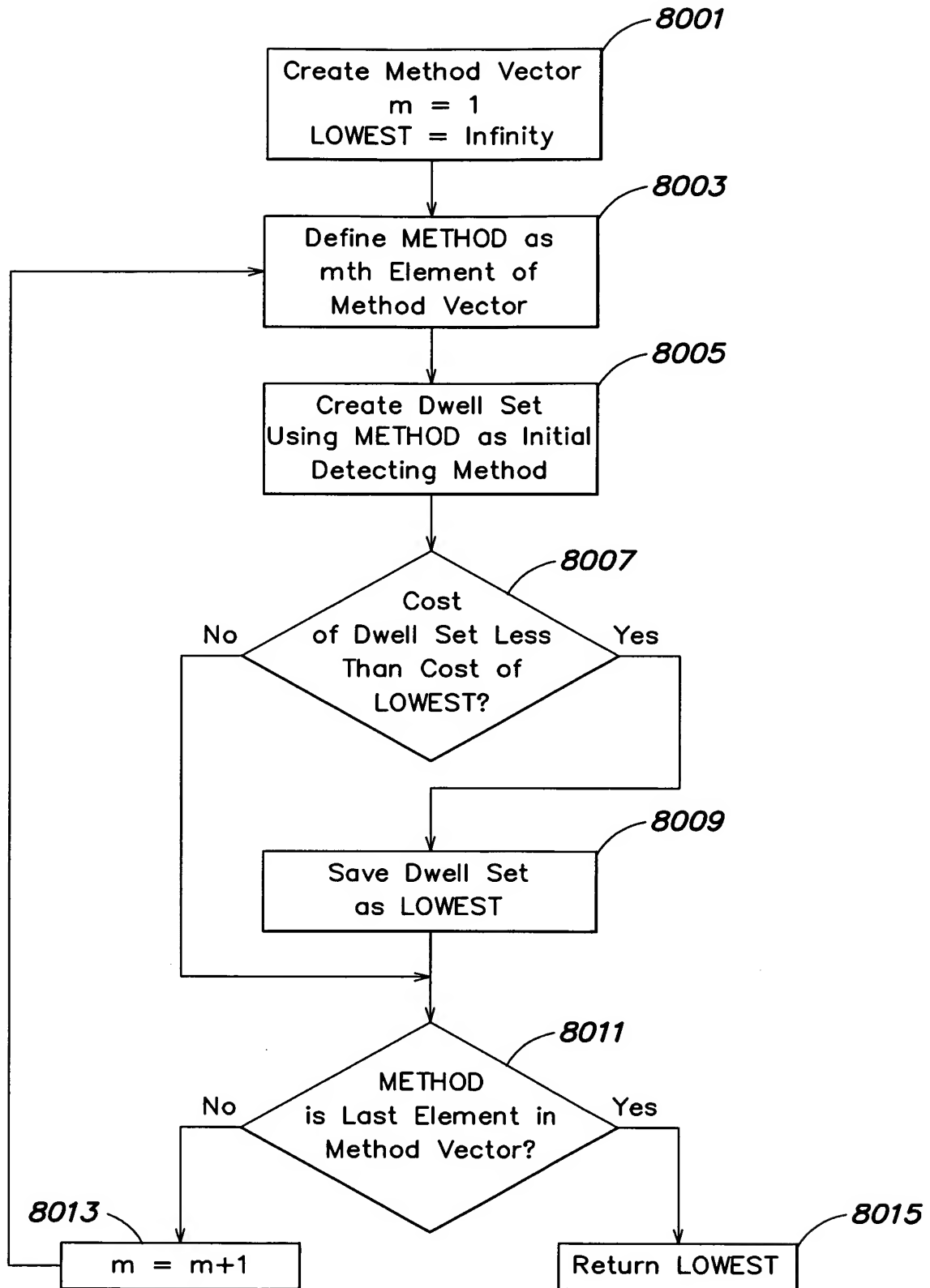


FIG. 18

Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

FIG. 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

FIG. 20

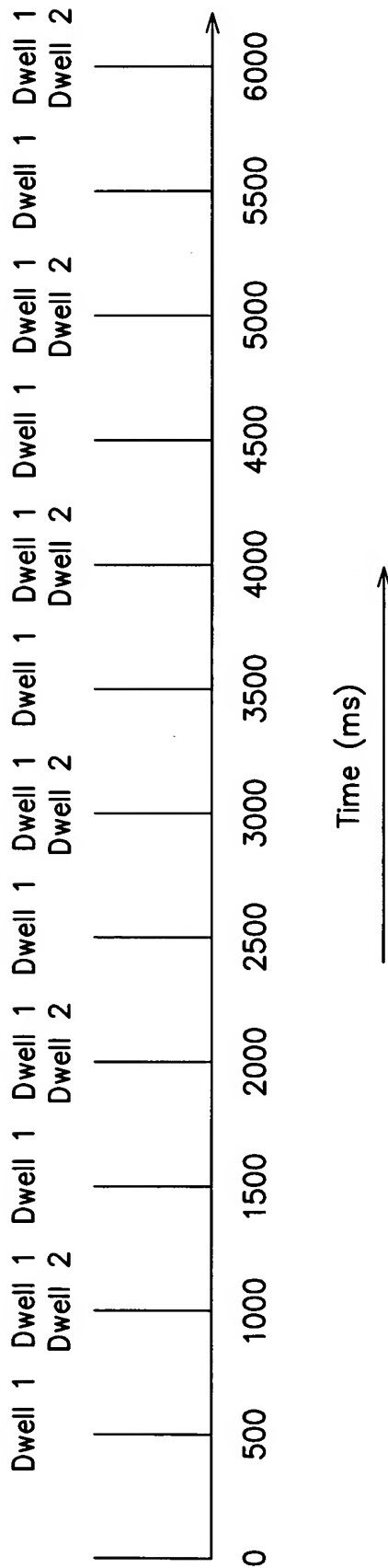


FIG. 21

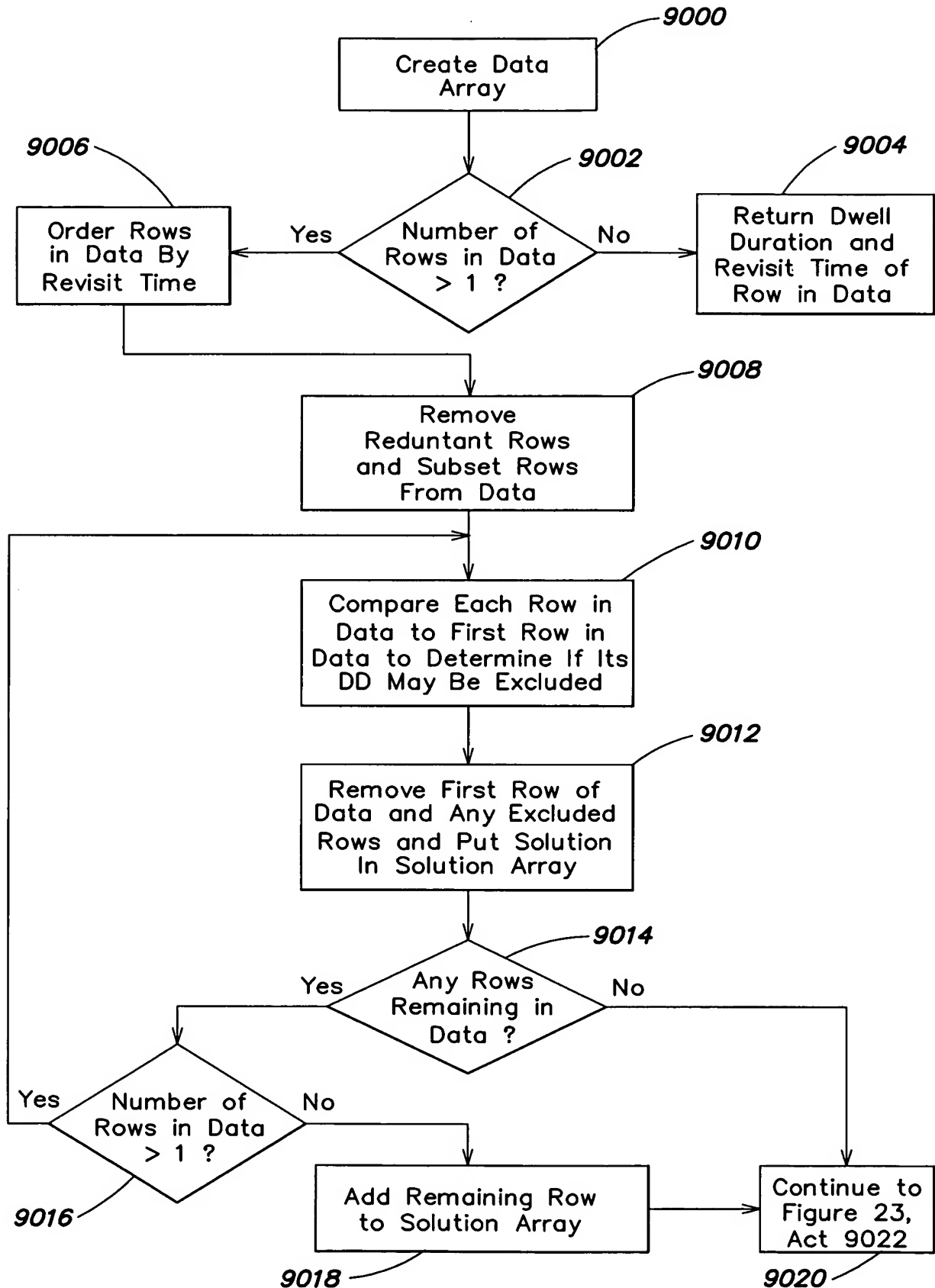


FIG. 22

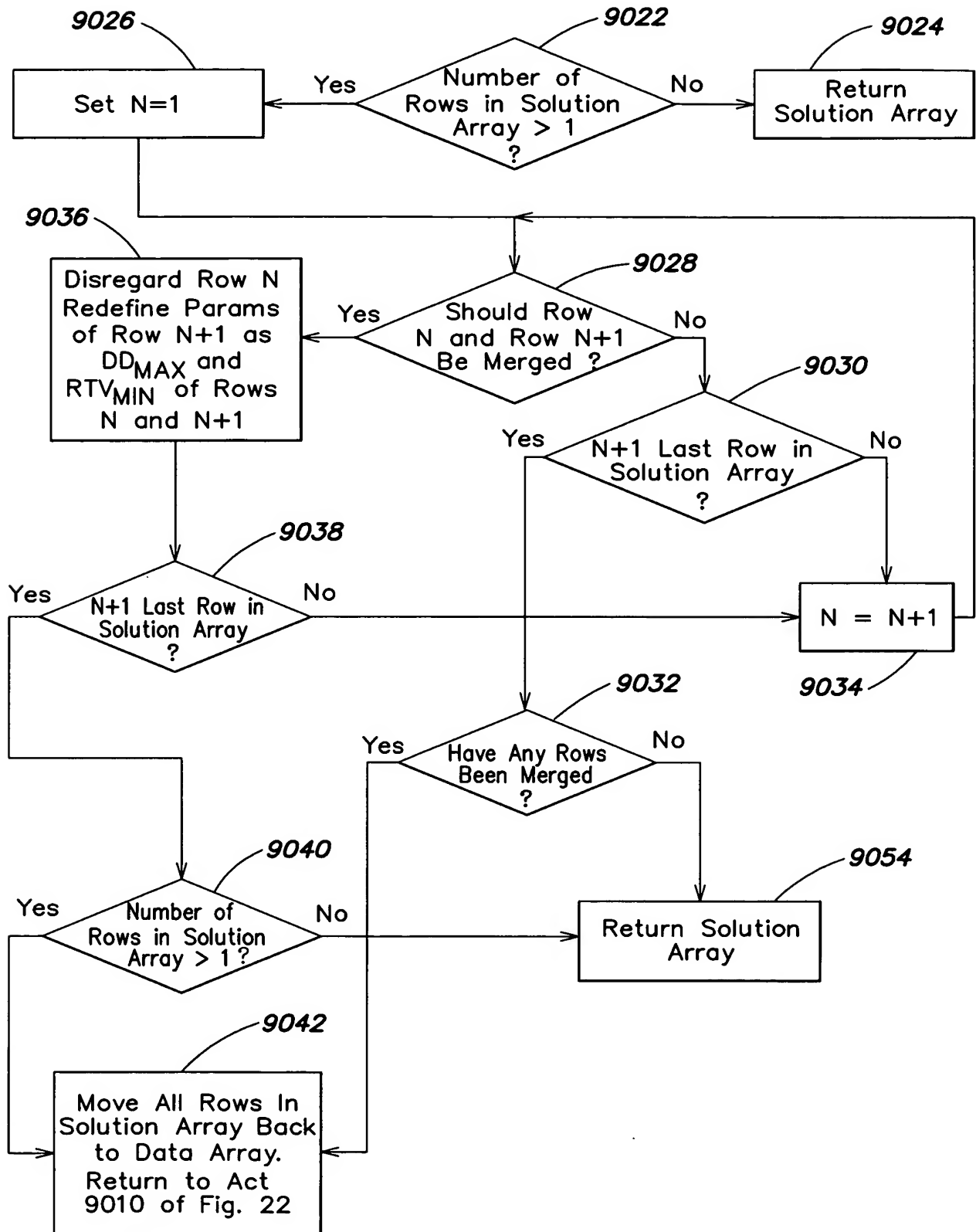


FIG. 23

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

9051

9052

FIG. 24C

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048

9049

9050

FIG. 24B

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

FIG. 24A

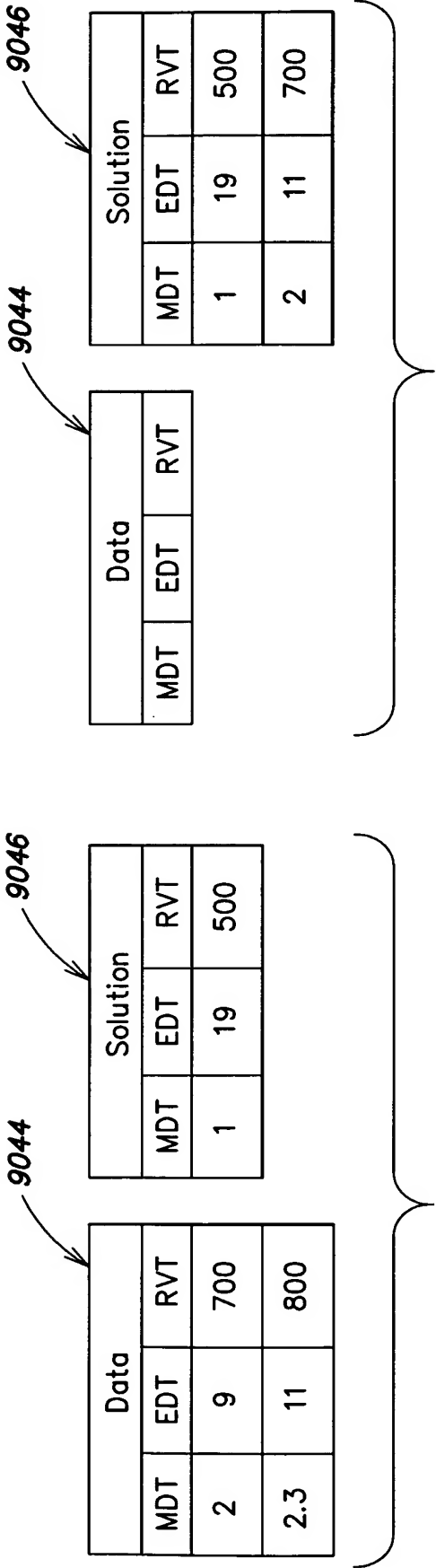


FIG. 24D

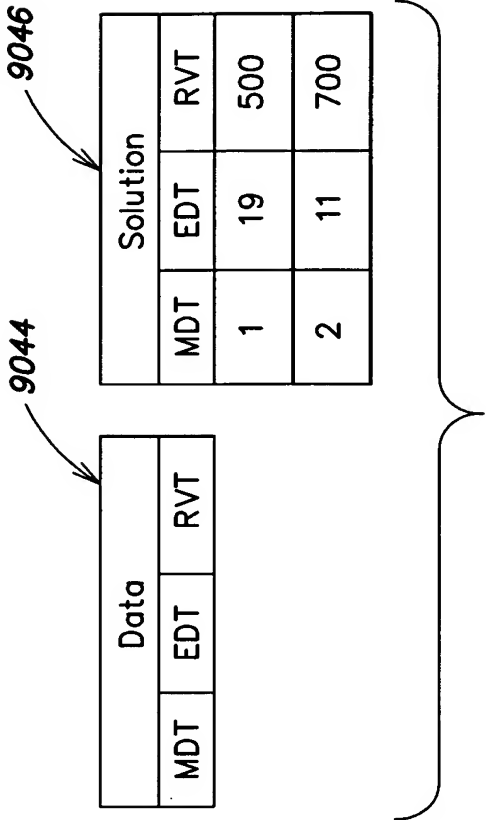


FIG. 24E

Table labeled 9046, representing a Solution. It has two rows and three columns. The columns are labeled MDT, EDT, and RVT. The data is as follows:

	MDT	EDT	RVT
	1	19	500
	2	11	700

FIG. 24F

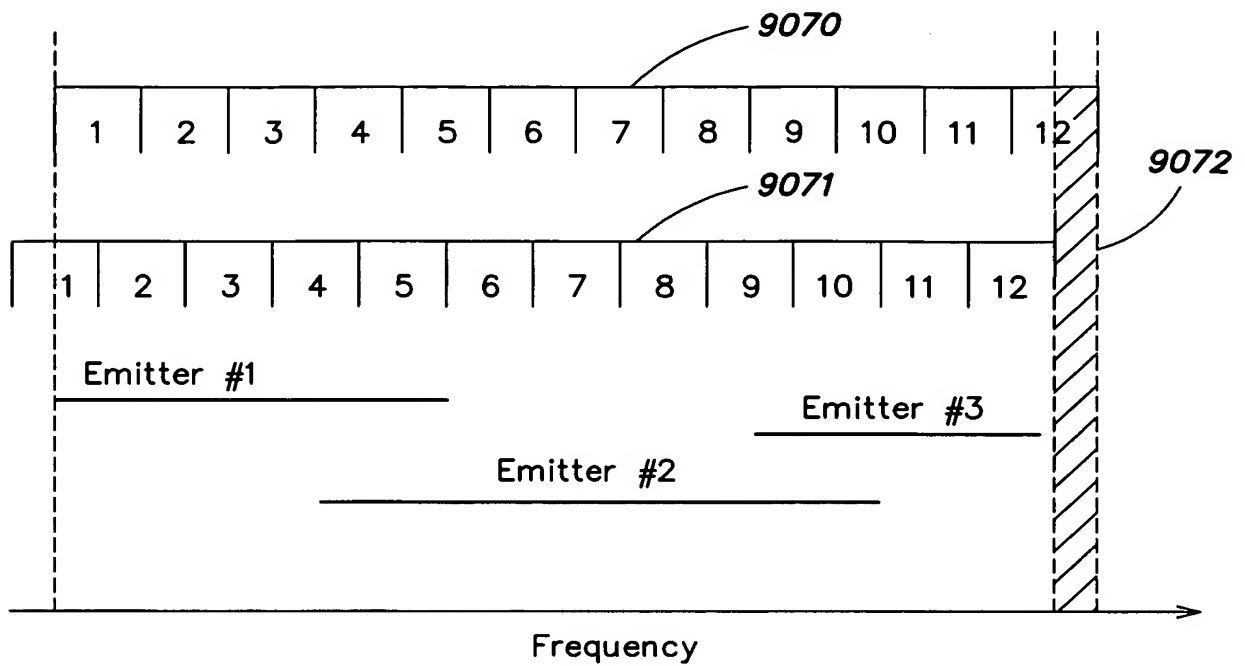


FIG. 25

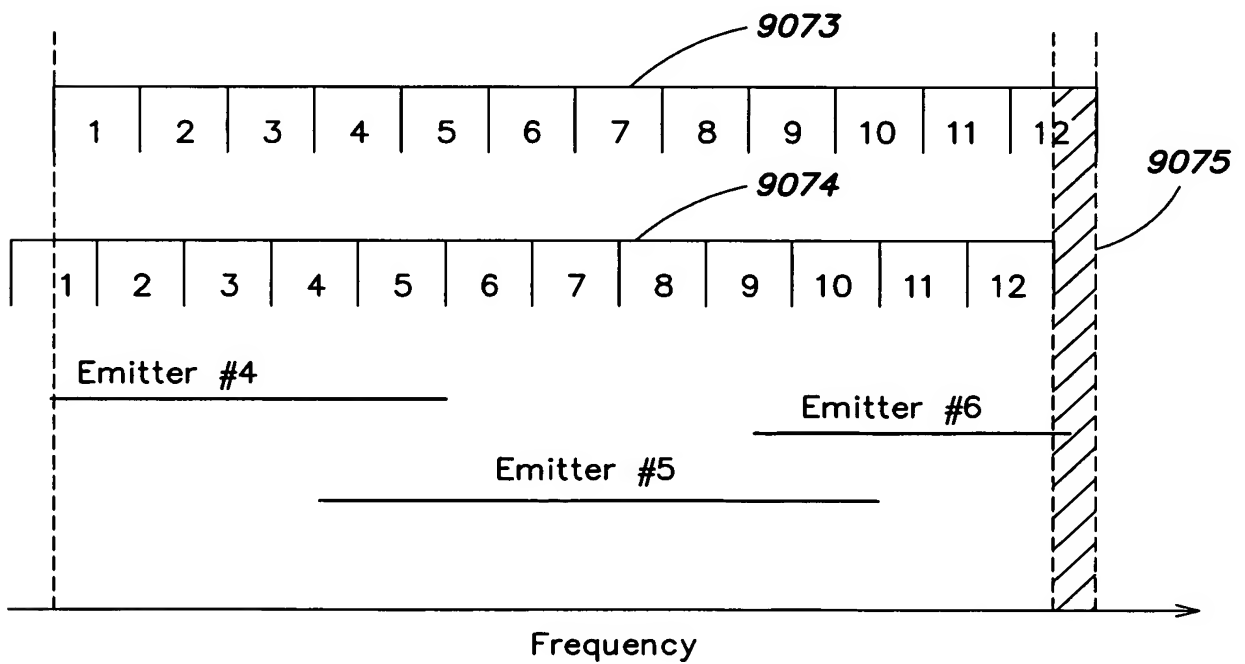


FIG. 26

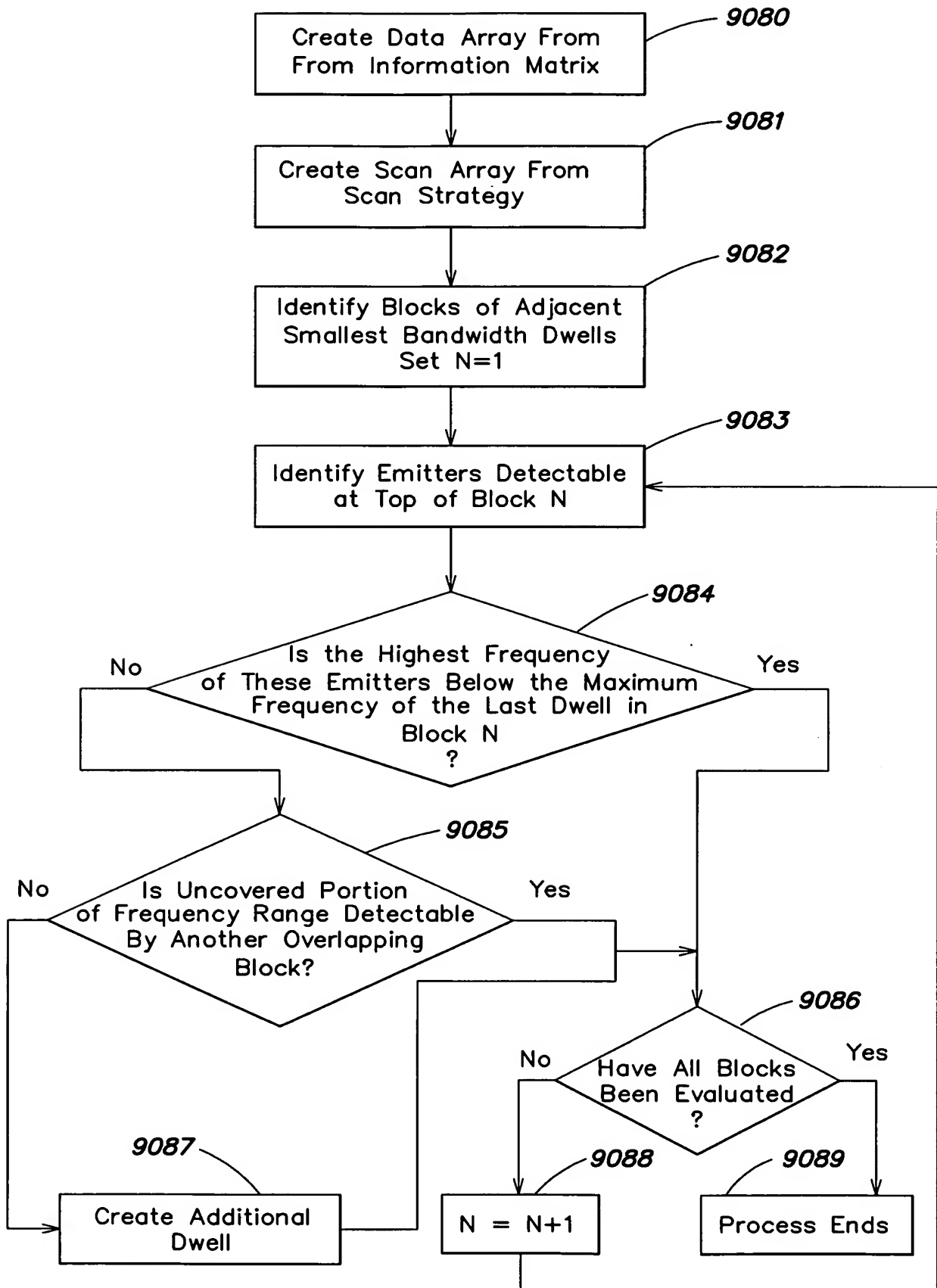
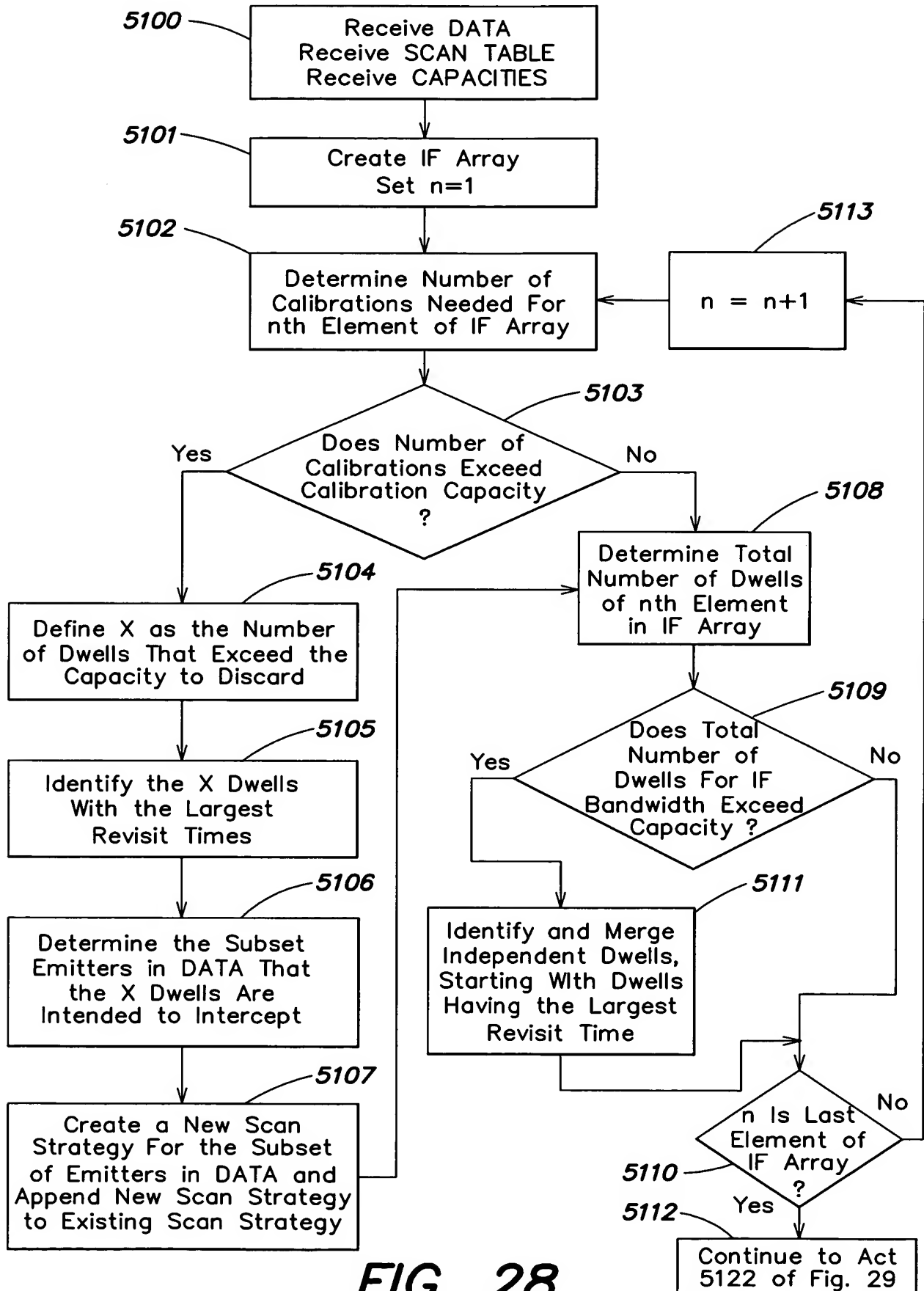


FIG. 27



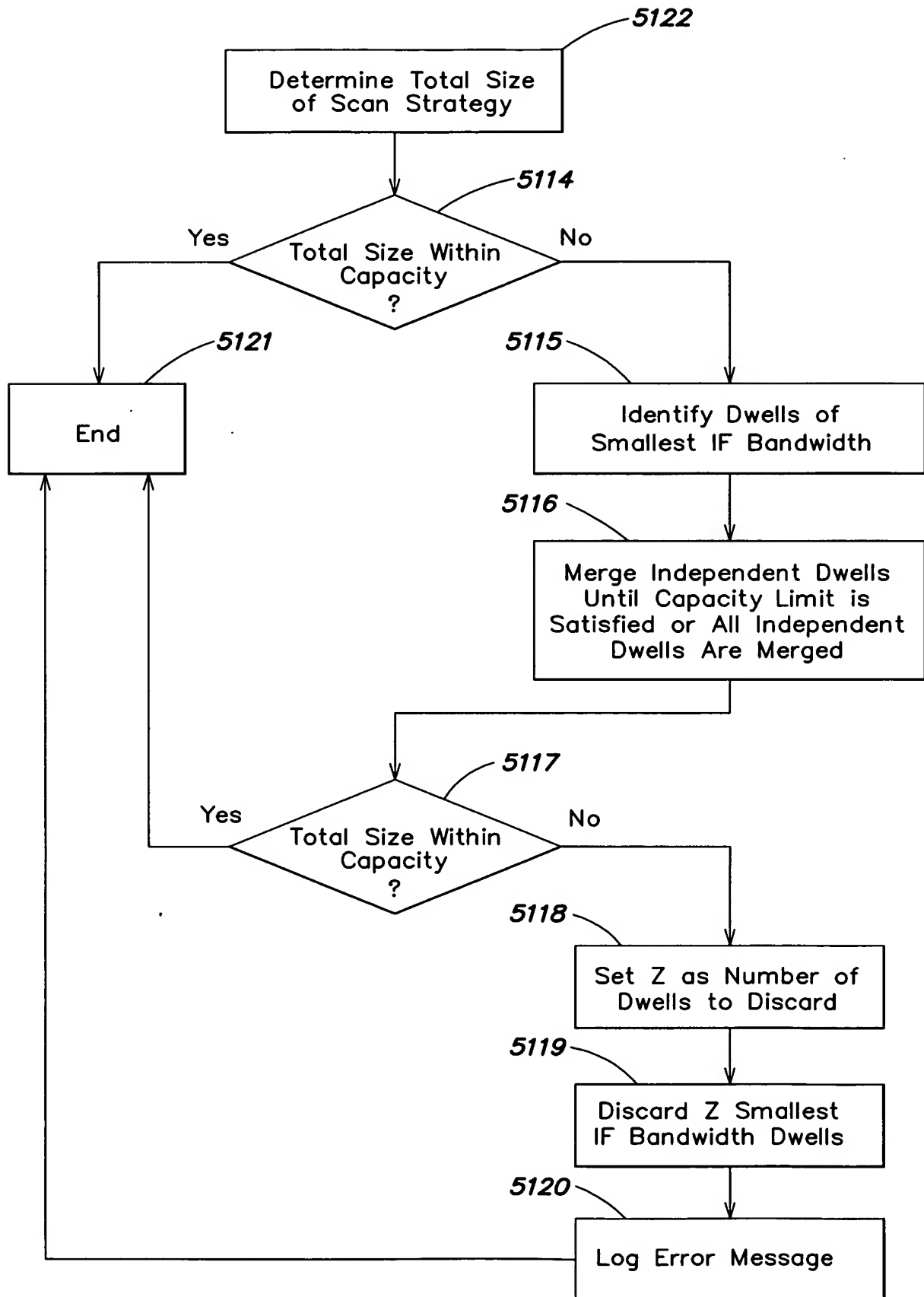


FIG. 29

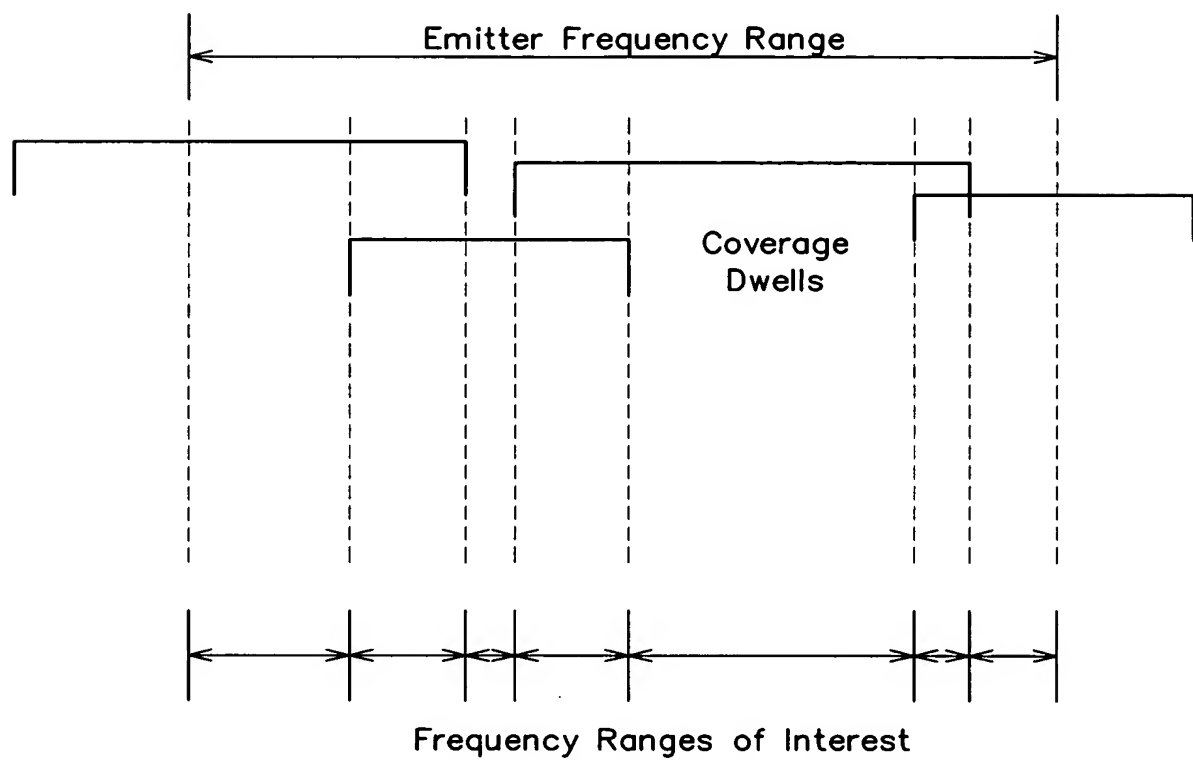


FIG. 30

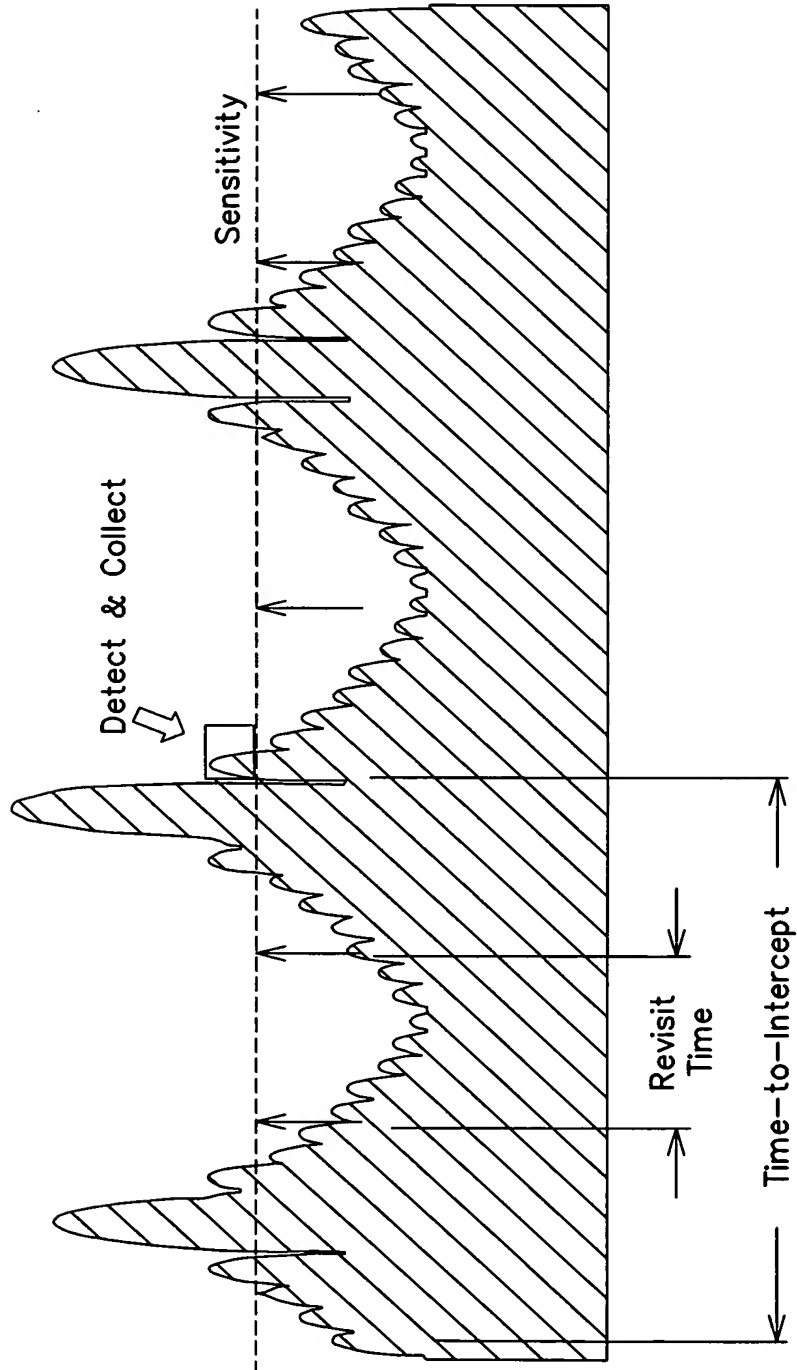


FIG. 31

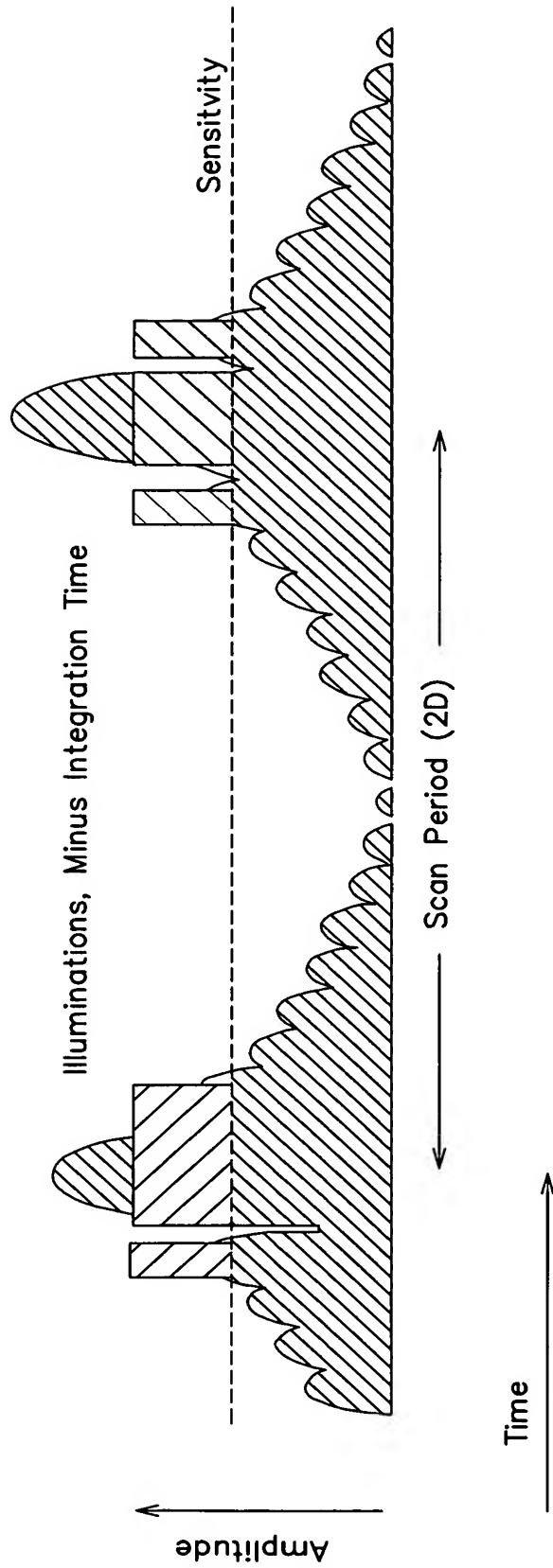


FIG. 32